

PAT-NO: JP360203648A

DOCUMENT-IDENTIFIER: JP 60203648 A

TITLE: MANUFACTURE OF SURFACE-MODIFIED EXPANDABLE
STYRENE RESIN BEADS

PUBN-DATE: October 15, 1985

INVENTOR-INFORMATION:

NAME

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NAME

BADISCHE YUKA CO LTD

COUNTRY

N/A

APPL-NO: JP59060141

APPL-DATE: March 28, 1984

INT-CL (IPC): C08J009/22

US-CL-CURRENT: 521/57

ABSTRACT:

PURPOSE: To obtain the titled styrene resin beads by coating, using silicone oil as a binder in the form of aqueous emulsion, surface modifier on expandable styrene resin beads to improve its coatability to enable the adhesive force of said modifier to be enhanced even with a small amount thereof.

CONSTITUTION: The objective resin beads can be obtained by incorporating (A) expandable styrene resin beads containing volatile swelling agent with (B)

0.01~; 2wt% of a surface modifier with a melting point
45~;130°C
(e.g. an ester from 12~;22C higher fatty acid and glycerin) and
(C) an
aqueous emulsion with a viscosity 4~;5,000cps, prepared by
dispersing
(C<SB>1</SB>) 100pts.wt. of silicone oil (pref. methyl phenyl
silicone oil),
(C<SB>2</SB>) 5~;50pts.wt. of a lipophilic cationic surfactant
and
(C<SB>3</SB>) 0~;100pts.wt. of polyethylene glycol with a
molecular weight
100~;1,000 in (C<SB>4</SB>) 100~;400pts.wt. of water in such
an amount
as to be 0.005~;0.2wt% of the component (C<SB>1</SB>) based on the
component
(A).

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DERWENT-ACC-NO: 1985-293949

DERWENT-WEEK: 198547

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TITLE: Surface-modified foaming styrene! resin
granules prodn.
- using aq. emulsion of silicone oils as binder

PATENT-ASSIGNEE: YUKA BADISCHE KK[YUKAN]

PRIORITY-DATA: 1984JP-0060141 (March 28, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
<u>JP 60203648 A</u>	October 15, 1985	N/A
007 N/A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 60203648A	N/A	1984JP-0060141
March 28, 1984		

INT-CL (IPC): C08J009/22

ABSTRACTED-PUB-NO: JP 60203648A

BASIC-ABSTRACT:

The styrene resin granules are produced by adhering (1) surface modifiers preventing blocking of the resin granules at the time of prefoaming and reducing the cooling time at the time of foaming and moulding and having m.pts. of 45-130 deg.C to the surface of (2) foaming styrene resin granules contg. volatilising expanding agents by the use of (3) aq. emulsion of silicone oils as binder.

Volatilising expanding agents e.g. propane, methyl chloride, petroleum ether are added to styrene resin granules in an amt. of 3-15 wt.%, pref. 4-8 wt.%.

(3) is prepd. by dispersing 100 pts. wt. of silicone oils in 100-400 pts. wt. of water in the presence of 5-20 pts. wt. of lipophilic cation type surface activators. The surface modifier mixts. comprising 100 pts. wt. of mono-, di- or tri-esters of glycerine and stearic acid, or their mixt. and 30-100 pts. wt. of (B) metal soaps are pref. used as (1).

ADVANTAGE - The styrene resin granules show small blocking at the time of forming prefoamed granules and enable to reduce the cooling time at the time of moulding foams.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: SURFACE MODIFIED FOAM POLYSTYRENE RESIN GRANULE PRODUCE
AQUEOUS
EMULSION SILICONE OIL BIND

DERWENT-CLASS: A13 E19

CPI-CODES: A06-A00E; A07-B04; A08-B04; A08-M07; A12-S01A; A12-S09;
E10-E04G;
E10-E04K; E10-G02G;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H401 H402 H481 H482 J0 J011 J012 J013 J2 J271
J272 J273 M225 M226 M231 M232 M233 M262 M281 M282
M283 M313 M321 M332 M343 M383 M391 M416 M620 M781
M903 Q133 R032 R044

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0335U; 5216U ; 5218U ; 5220U ;
5317U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 3003 0037 0205 0224 0228 0229 0304 1306 2272 2275 2276
2306 3221

3222 2368 2430 2437 2442 2446 2447 2504 2540 2541 2545 2682 2726

Multipunch Codes: 014 03& 03- 05- 055 056 075 13- 229 311 318 323 324
369 38-

393 397 42- 431 436 44& 443 448 449 456 476 477 491 50- 55& 56& 609
688 720

SECONDARY-ACC-NO: